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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,339	02/26/2004	Karl-Heinz Nuebel	10191/3529	9085
26646	7590 01/25/2006		EXAMINER	
KENYON & KENYON LLP ONE BROADWAY			NGUYEN, TUYEN T	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
,			2832	
		DATE MAILED: 01/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/789,339	NUEBEL ET AL.
		Examiner	Art Unit
		TUYEN T. NGUYEN	2832
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence address
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEHEVER IS LONGER, FROM THE MAILING DOTS INTO THE MAILIN	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowarclosed in accordance with the practice under B	action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		•
5) □ 6) ☑ 7) □ 8) □ Applicati 9) □	Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. or election requirement. er. epted or b) objected to by the drawing(s) be held in abeyance. Sec	e 37 CFR 1.85(a).
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.
Priority ι	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. [US 5,685,065].

Suzuki et al. discloses an ignition coil [figures 1-3] comprising:

- a first coil bobbin [11] having a first coil [10];
- a second coil bobbin [21] having a second coil [22];
- a center core [2] formed from laminated magnetic material;
- a peripheral core [3] formed from laminated magnetic material, wherein the peripheral core includes a recess [3c] in a circumferential extension thereof to accommodate one end of the center core; and
- a permanent magnet [5] disposed between the center core and the peripheral core, wherein the permanent magnet positioned at an end area of the center core facing away from the end area inserted into the recess of the peripheral core and directly adjacent to the peripheral core.

Suzuki et al. discloses the instant claimed invention except for the specific shape of the center core.

The specific I-shape of the center core would have been an obvious design consideration for the purpose of facilitating manufacturing and controlling the magnetic flux.

Regarding claim 3, the specific arrangement of the coil/bobbin would have been an obvious design consideration for the purpose of controlling the inductance.

Regarding claim 6, Suzuki et al. discloses the center core, the first and second coil bobbins and the permanent magnet formed a preassembled module.

Regarding claims 7-8, Suzuki et al. further discloses the peripheral core formed of one piece and a clamped joint existing between the peripheral core and the center core.

Regarding claim 9, Suzuki et al. inherently discloses the recess having a smaller size than the end area of the center core and widenable to accommodate the center core [note, Suzuki et al. teaches a fitted action between the center core and the peripheral core.]

Regarding claims 10-11, discloses the claimed invention except for the peripheral core being formed of two-piece design. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a two-piece design for the peripheral core, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. Nerwin v. Erlichman, 168 USPQ 177, 179. Suzuki et al. further discloses that air gap may exist between the center core and the peripheral core.

Regarding claim 12, iron is a known material in forming the magnetic core.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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